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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/810,366	03/15/2001	Timothy B. Cowles	00-0058	9208	
7	7590 02/23/2004		EXAMINER		
Charles Brant		TU, CHRISTINE TRINH LE			
Mail Stop 525			ADTIBUT	DA DED MANDED	
Micron Techno	ology, Inc.	ART UNIT	PAPER NUMBER		
8000 S. Federa	ıl Way		2133		
Boise, ID 83	716		DATE MAILED: 02/23/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
	,	09/810,366	COWLES, TIMOTHY B.	
	Office Action Summary	Examiner	Art Unit	
		Christine T. Tu	2133	
Period	The MAILING DATE of this communication ap I for Reply	ppears on the cover sheet w	ith the correspondence address	
	SHORTENED STATUTORY PERIOD FOR REPI	VIC SET TO EVDIDE 4 M	IONITH(C) EDOM	
TH - E a - If - If - F	EMAILING DATE OF THIS COMMUNICATION extensions of time may be available under the provisions of 37 CFR 1. (Ifter SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply to the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statutary reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of thir will apply and will expire SIX (6) MON te, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).	ion.
Status	·			
1)[\boxtimes Responsive to communication(s) filed on <u>15 I</u>	March 2001		
	<u> </u>	is action is non-final.		
3)[<u> </u>		ters, prosecution as to the merits	is
	closed in accordance with the practice under	•	•	
Dispos	sition of Claims			
4)[☑ Claim(s) <u>1-53</u> is/are pending in the application	n.		
,-	4a) Of the above claim(s) is/are withdra			
5)[Claim(s) is/are allowed.			
6)[Claim(s) is/are rejected.			
7)[Claim(s) is/are objected to.			
8)[\boxtimes Claim(s) <u>1-53</u> are subject to restriction and/or	election requirement.		
Applic	ation Papers			
9)[The specification is objected to by the Examin	er.		
_	☐ The drawing(s) filed on is/are: a)☐ ac		by the Examiner.	
	Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	•	
	Replacement drawing sheet(s) including the correct		` ,	(d).
11)[\square The oath or declaration is objected to by the E			` '
Priorit	y under 35 U.S.C. § 119			
12)[Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. 8	S 119(a)-(d) or (f)	
	a) ☐ All b) ☐ Some * c) ☐ None of:		3 (2) 3. (1).	
	1. Certified copies of the priority documen	nts have been received.		
	2. Certified copies of the priority documen		opplication No.	
	3. Copies of the certified copies of the price			
	application from the International Burea	au (PCT Rule 17.2(a)).	-	
	* See the attached detailed Office action for a lis	t of the certified copies not	received.	
Attachm	nent(s)			
	otice of References Cited (PTO-892)	4) 🗍 Interview 9	Summary (PTO-413)	
2) 🔲 No	otice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
	formation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 aper No(s)/Mail Date	5) Notice of I	nformal Patent Application (PTO-152)	

Application/Control Number: 09/810,366

Art Unit: 2133

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-28 and 42-53, drawn to a method of testing a memory cell and replacing a defective memory cell with a redundant memory cell, classified in class 714, subclass 710.
 - II. Claims 29-32, drawn to a method of handling an address (in a register) associated with a memory cell that has failed a test, classified in class 714, subclass 723.
 - III. Claims 33-41, drawn to a method of checking a semiconductor die and replacing with a <u>column</u> of memory cells, classified in class 714, subclass 711.
- 2. Inventions Group I and Group II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention Group I has separate utility such as replacing a defective cell with a redundant cell instead of replacing with a whole column of redundant cells. See MPEP § 806.05(d).
- 3. Inventions Group I and Group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed

Application/Control Number: 09/810,366

Art Unit: 2133

does not require the particulars of the subcombination as claimed because the method of handling an address in a register of group II has novelty other than in the use of the testing of a memory cell. The subcombination has separate utility such as being used in a non-testing memory method.

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine T. Tu whose telephone number is (703)305-9689. The examiner can normally be reached on Mon-Thur. 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (703)305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/810,366

Art Unit: 2133

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christine T. Tu
Primary Examiner
Art Unit 2133

February 20, 2004